

Climate Change and Waste Management

Chuck White

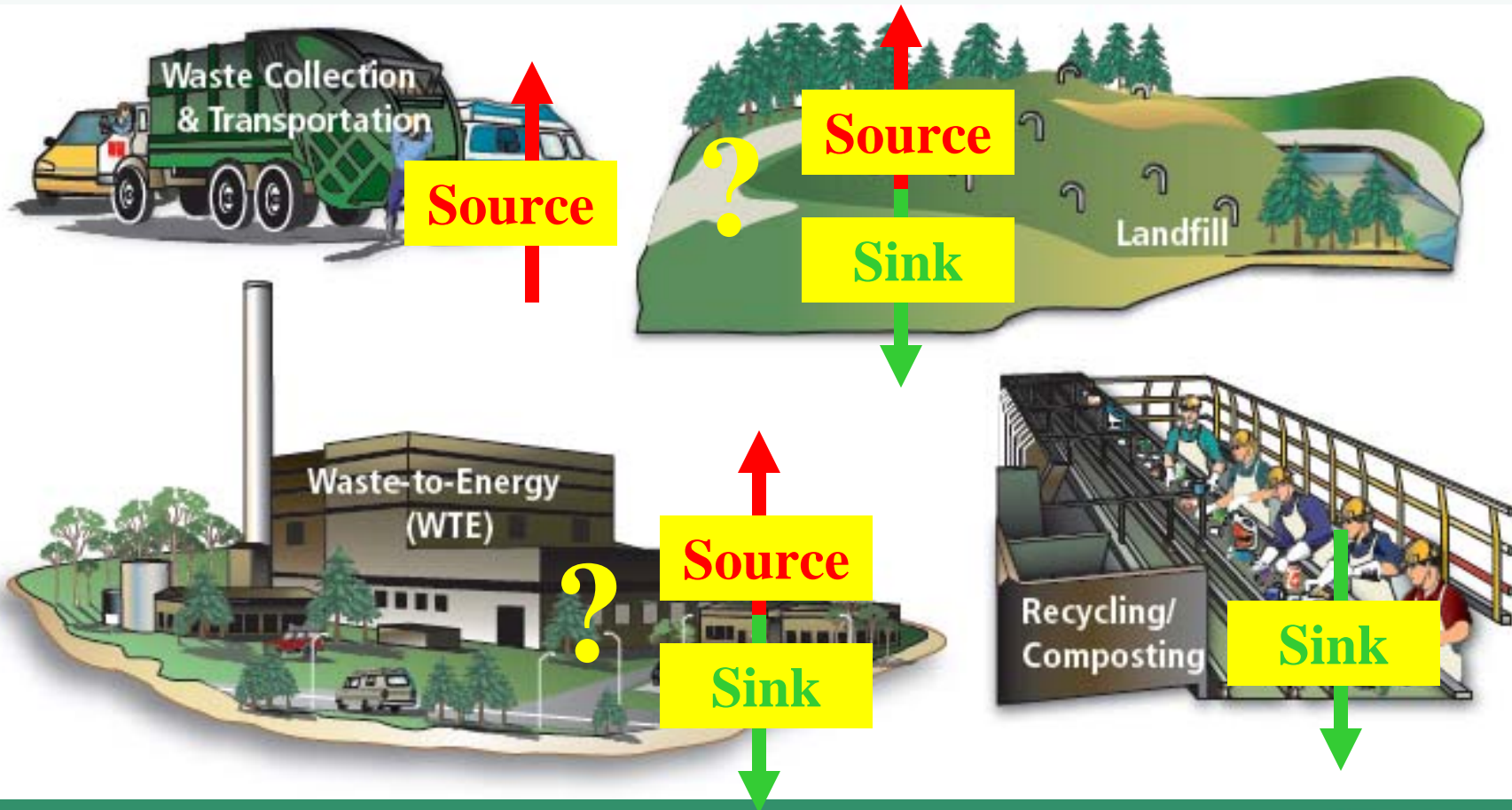
Director of Regulatory Affairs, West

916-552-5859

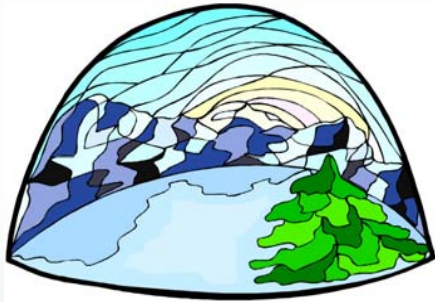
cwhite1@wm.com



Solid Waste Management GHG Sources and Sinks



From everyday collection to environmental protection, Think Green.SM Think Waste Management.



WM's Contributions to GHG Reduction



- **Collection and Destruction of LF Methane**
- **Emission Oxidation in LF cover materials**
- **LFGTE and WTE Plants to displace fossil fuels**
- **Development of LFG to LNG Technology**
- **Development of Bioreactor Landfill Technology**
- **Development of Conversion Technology Partnerships**
- **Advanced Vehicle Technology for Alt fuels/Hybrids**
- **Increased Recyclable Material Recovery**
- **Upstream Services Waste Reduction Services**
- **Carbon Sequestration and LF Forestry**



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WM Immediate Goal: Cork Our Flares!!



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Positive GHG Messages from Waste Industry

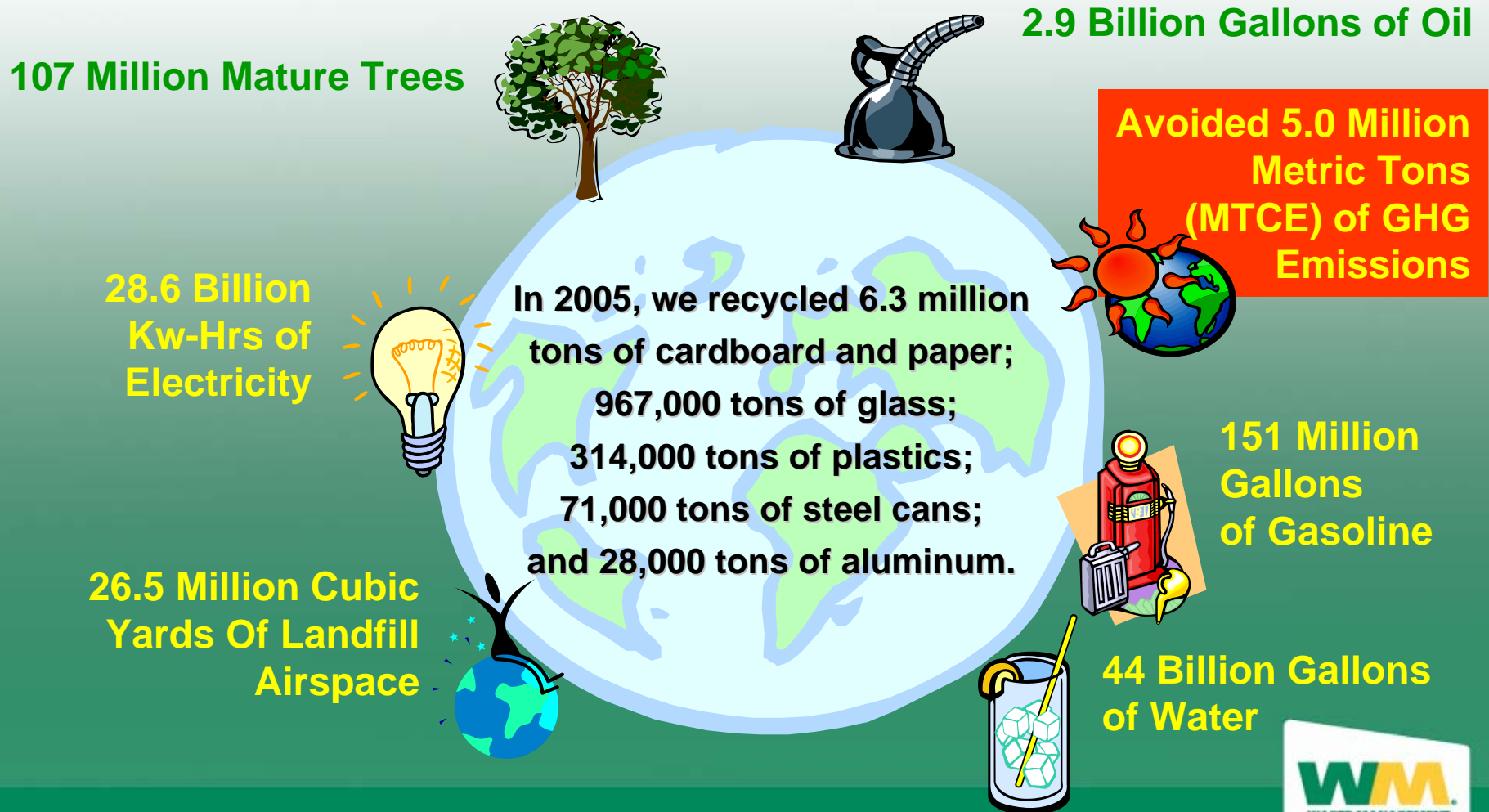


- Waste-Related Emissions are small, < 1-3%
- Progress to date has been Significant
 - *50 – 80% reduction in GHG emissions*
 - *Increased recycling rates*
 - *Landfill Gas Controls (>>>75% capture!!!!)*
 - *Increased conversion to energy*
 - *Alternative fueled vehicles*
- Landfill Sequestration
- Opportunities for further Waste-to-Energy

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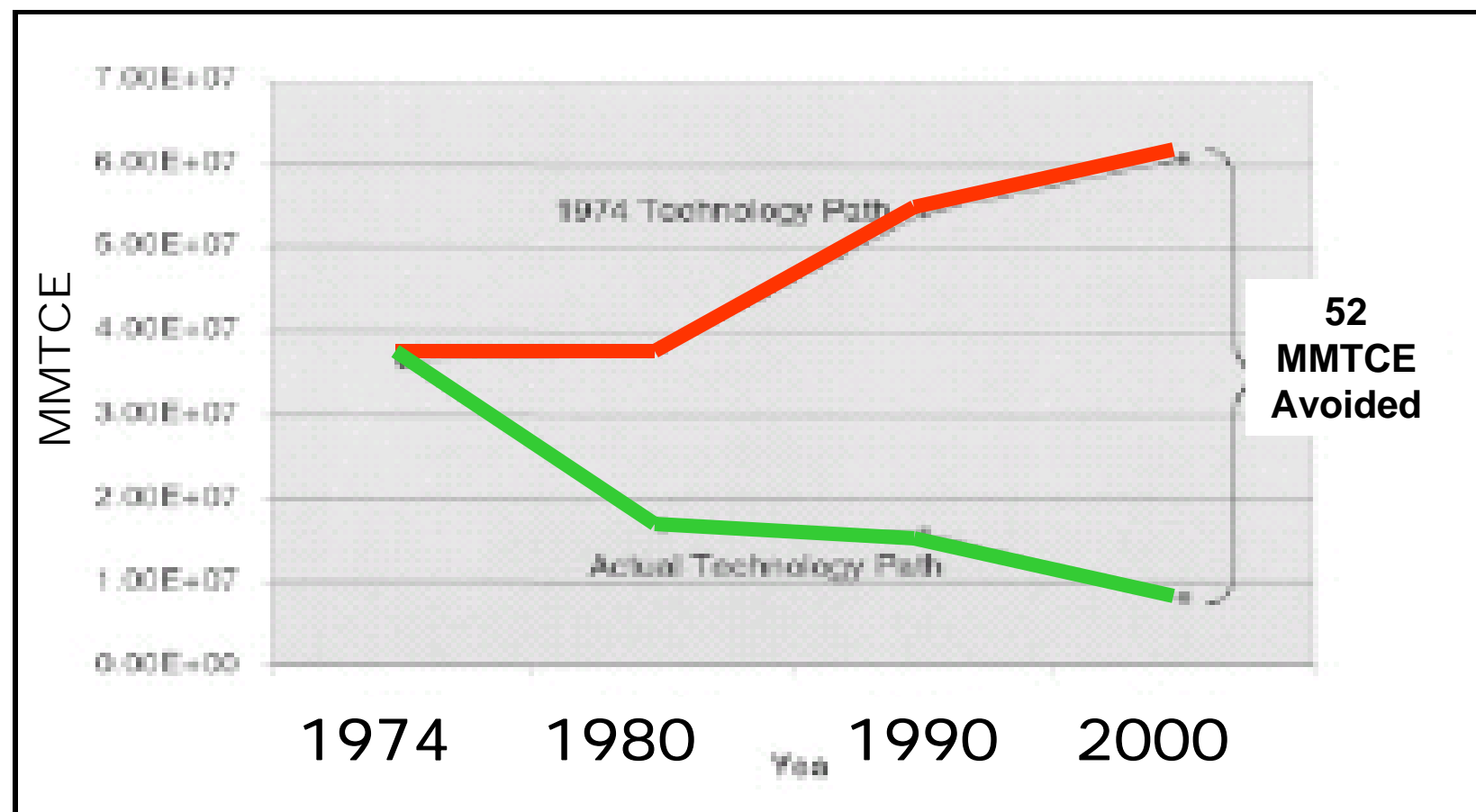


Waste Management/Recycle America – 2005 Recycling Benefits



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Overall GHG Reductions for Solid Waste Management – All Sources



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